

Title (en)
Torque limiter

Title (de)
Drehmomentbegrenzer

Title (fr)
Limiteur de couple

Publication
EP 2418392 B1 20130522 (EN)

Application
EP 11008954 A 20090107

Priority
• EP 09700299 A 20090107
• JP 2008001224 A 20080108

Abstract (en)
[origin: EP2233762A1] A torque limiter which can be easily and quickly assembled and adjusted. A torque limiter has a tube member (1) and a shaft member (2). The shaft member (2) has a circumferentially extending section (52) extending around the complete circumference of the outer surface of the tube member (1). The circumferentially extending section (52) has a circumferentially extending groove and a screw hole open to the outside radially of the circumferentially extending section (52) and to the circumferentially extending groove. In use, when the tube member (1) rotates relative to the shaft member (2), an outer end radially of a tube (27) is cut by a cap (70) threaded to the screw hole. When the tube member (1) is rotated relative to the shaft member (2) with the cap (70) not threaded to the screw hole and with the tube (27) not open to the outside, the end of the tube (27) circumferentially moves in the circumferentially extending groove with a spacing from the groove.

IPC 8 full level
F16D 1/091 (2006.01); **F16D 7/02** (2006.01); **F16D 25/065** (2006.01)

CPC (source: EP US)
F16D 1/0805 (2013.01 - EP US); **F16D 3/80** (2013.01 - US); **F16D 7/021** (2013.01 - EP US); **F16D 9/06** (2013.01 - EP);
F16B 2200/63 (2023.08 - EP US); **F16D 9/06** (2013.01 - US); **Y10T 403/22** (2015.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2233762 A1 20100929; EP 2233762 A4 20111228; EP 2233762 B1 20121205; CN 101910661 A 20101208; CN 101910661 B 20130731;
EP 2418392 A2 20120215; EP 2418392 A3 20120222; EP 2418392 B1 20130522; JP 2009162323 A 20090723; JP 5151484 B2 20130227;
US 2010272502 A1 20101028; US 2013225301 A1 20130829; US 8419552 B2 20130416; US 8875860 B2 20141104;
WO 2009088012 A1 20090716

DOCDB simple family (application)
EP 09700299 A 20090107; CN 200980101858 A 20090107; EP 11008954 A 20090107; JP 2008001224 A 20080108;
JP 2009050074 W 20090107; US 201313858510 A 20130408; US 73533709 A 20090107